Description of Work: High-voltage (\geq 600V AC or DC), Low-current (\leq 10 amps operating, or < 50 amps capability) Power supplies can be found in system test racks in the ESE Department. An example is providing gain voltage to Photomultiplier tubes or providing bias voltages to silicon detectors. Installation and use of these supplies presents the following safety hazards.

Step/Pha se of	Safety Hazard	Precautions/Safety Procedures
Job		
Installation	Muscle and joint	Use safe lifting methods including mechanical assistance, co-
	strain, pinch, cut, and	worker assistance, and correct posture. Evaluate need for
	smash hazard	personal protection equipment (PPE) for hands & face.
Installation	Electrical hazards	Ensure the power supply is disconnected from the mains.
	including fire and	Measure the output connection voltage to confirm that no
	welding	residual energy is stored within the module.
Installation	Heat and fire hazards.	Ensure the high voltage cable is appropriate for the task. Assure the connectors breakdown voltage is greater than the highest
		output voltage.
		Insure the cable is sized correctly for the conductor to safely
		carry at least the fault voltage needed to trip safety devices.
		Ensure the break-down voltage of the cable insulation is greater
		than the highest output voltage of the supply. Assure the cable
		jacket is sufficiently rugged for the task. Verify the high voltage
		connections are secure and will not easily become loose.
During Use	Electrical hazards	Regularly check that the high voltage connections at both the
Ö	including fire and	supply and the load are secure and have not become loose.
	welding.	Regularly check the physical integrity of the cables and the
	8	connectors, replacing any with signs of excessive wear or of
		arcing. Regularly check the current output of the supply,
		checking that the current output from the supply is not leaking
		through the cable.
After Use	Electrical hazards	Confirm that no residual energy is stored within the module by
	including shock	measuring the output connection voltage. If necessary, use a
		grounding stick to discharge the stored energy along a known
		current path.
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	including shock	0 1	ischarge the stored energy along a kr	
Accepted:			Date:	_
	Supervisor/Task Manager			

understand the hazards and required precaution follow the requirements of this hazard analyst supervisor if I am unable to do so.	
Name (please print) Signature	Date

My supervisor has reviewed this hazard analysis with me and ${\tt I}$